

```
import numpy as hah
#indices where the value is 4:
arr=hah.array([2,3,4,5,6,6])
print("Original array:",arr)
x=hah.where(arr==4)
print("\nIndexes where the value is 4",x)
```

Original array: [2 3 4 5 6 6]

Indexes where the value is 4 (array([2], dtype=int64),)

```
#indexes where the values are even:
arr=hah.array([2,3,4,5,6,7])
x=hah.where(arr%2==0)
print("Original array:",arr)
print("\nIndexes where the values are even",x)
```

Original array: [2 3 4 5 6 7]

Indexes where the values are even (array([0, 2, 4], dtype=int64),)

```
#indexes where the value 3 should be inserted,starting from the right
x=hah.searchsorted(arr,3,side='left')
print("\nindexes where the value 3 should be inserted,starting from the right:",x)
```

indexes where the value 3 should be inserted,starting from the right: 1

```
#Sorting the array
arr=hah.array([3,2,0,1])
print("\nOriginal array:",arr)
print("\nSorted array:",hah.sort(arr))
arr=hah.array([[3,2,4],[5,0,1]])
print("\nOriginal array:",arr)
print("\nSorted array:",hah.sort(arr))
```

Original array: [3 2 0 1]

Sorted array: [0 1 2 3]

Original array: [[3 2 4]
[5 0 1]]

Sorted array: [[2 3 4]
[0 1 5]]

```
#Filter
arr=hah.array([40,41,42,43])
x=[True,False,True,False]
newarr=arr[x]
print("\nOriginal array:",arr)
print("\nFilter index:",x)
print("\nFilter array:",newarr)
arr=hah.array([40,41,42,43])
filter_arr=arr>42
newarr=arr[filter_arr]
print("\nOriginal array:",arr)
print("\nFilter array:condition->42:",filter_arr)
print("\nNew array:",newarr)
```

Original array: [40 41 42 43]

Filter index: [True, False, True, False]

Filter array: [40 42]

Original array: [40 41 42 43]

Filter array:condition->42: [False False False True]

New array: [43]

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